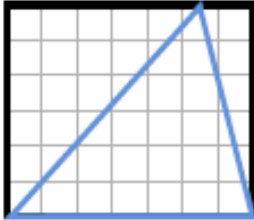
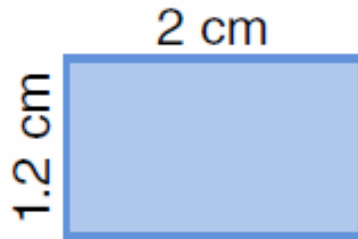


Area — the amount of surface inside a 2-dimensional figure, commonly measured in square units such as *square feet* or *square centimeters*



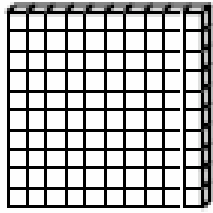

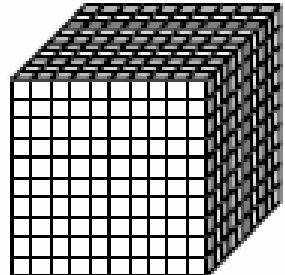
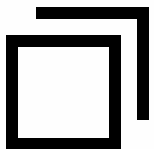


A triangle with area
21 square units





A rectangle with area
 $1.2 \text{ cm} * 2 \text{ cm} = 2.4 \text{ square centimeters}$

Base-10 Blocks – a set of blocks to represent ones, tens, hundreds, and thousands

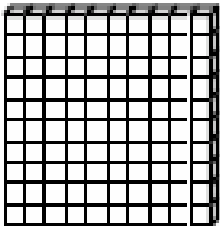
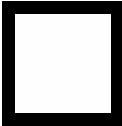
Name	Base-10 block	Base-10 shorthand
cube		■
long		
flat		
big cube		

cube		
------	---	---

Cube – the smaller cube of the base-10 blocks

long		
------	---	---

Long – the base-10 block representing 10 cubes or 10 1s

flat		
------	---	---

Flat – the base-10 block representing 100 cubes or 100 1s

Difference – the result of subtracting one number from another

$$12 - 3 = 9$$

$$\begin{array}{r} 9 \\ - 6 \\ \hline 3 \end{array}$$

Digit – any one of the symbols 0, 1, 2, 3, 4, 5, 6, 7, 8, 9

0, 1, 2, 3, 4,
5, 6, 7, 8, 9

Doubles Facts – a number plus itself and its sum

$$1 + 1 = 2$$

$$2 + 2 = 4$$

$$3 + 3 = 6$$

$$4 + 4 = 8$$

$$5 + 5 = 10$$

$$6 + 6 = 12$$

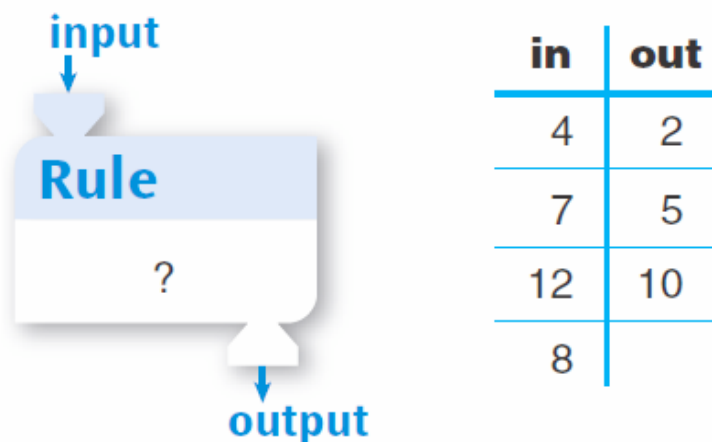
$$7 + 7 = 14$$

$$8 + 8 = 16$$

$$9 + 9 = 18$$

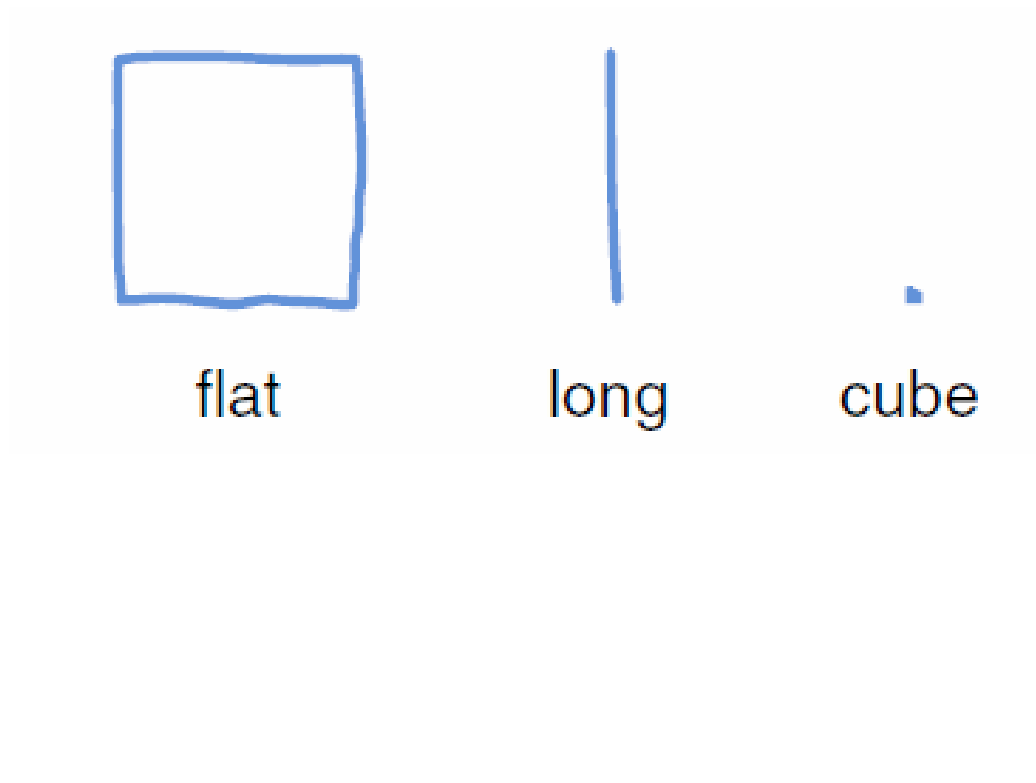
$$10 + 10 = 20$$

Function Machine/What's My Rule? – a problem in which two of the three parts of a function (input, output, and rule) are known, and the third is to be found out

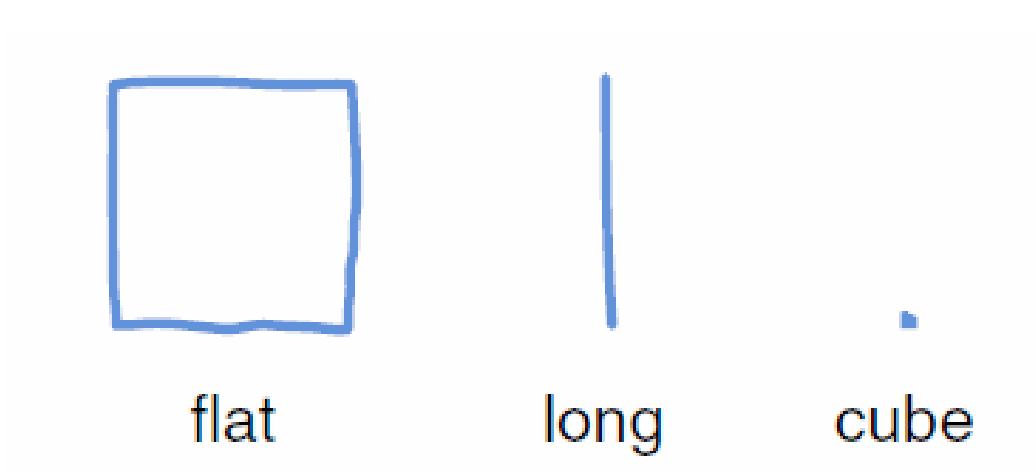


A "What's My Rule?" problem

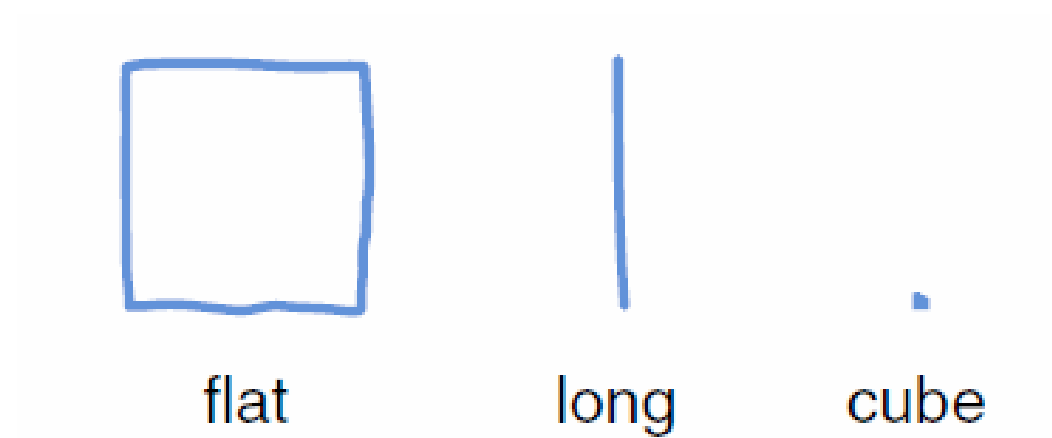
Hundreds/Flat/100s - the base-10 manipulative that represents 100



Ones/Cubes/1s - the base-10 manipulative that represents 1



Long/Tens/10s - the base-10 manipulative that represents 10



Place Value – a system that gives a digit a value according to its position or place in a number; in our standard base-10 decimal system, each place has a value 10 times that of the place to its right and 1 tenth the value of the place to its left

Hundreds	Tens	Ones

Is More Than

>

Is Less Than

<

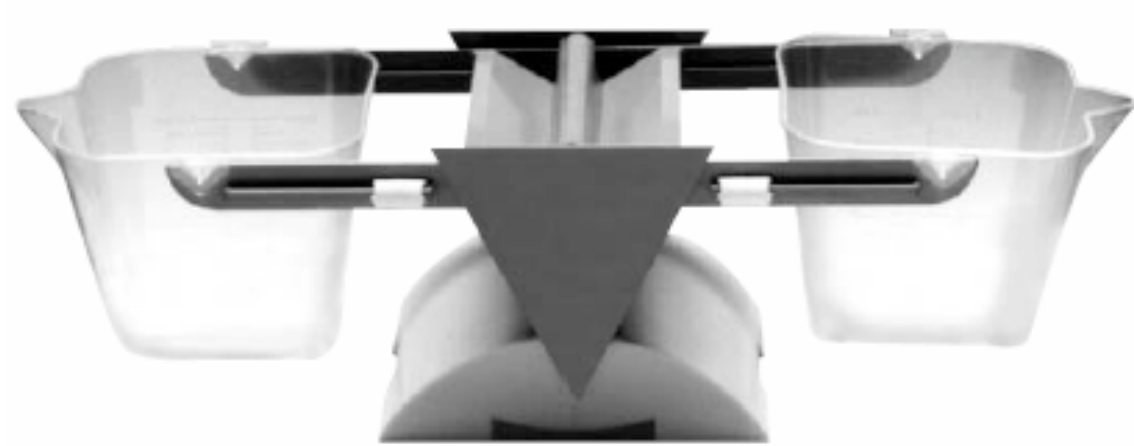
Multiple of 10 – any number that ends in zero; when you count by 10, you're naming multiples of 10

Multiples of 10

10, 20, 30, 40, 50, 60, 70, 80, 90,

100, 110, 120, 130, 140 . . .

Pan Balance – a device used to weight objects or compare their weights



Turn-around Rule/Facts – a rule for solving addition and multiplication problems based on the Commutative Property

If you know $6 + 8 = 14$, then you know $8 + 6 = 14$

If you know $6 * 8 = 48$, then you know $8 * 6 = 48$